

1FW16

CRF Errors Edited by the STIC Systems Branch

Serial Number: 09/747,287A

CRF Edit Date: 8/13/04
Edited by: AR

Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

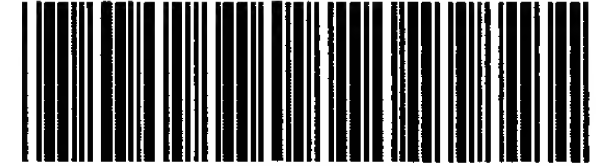
Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:

✓ Sequence 9 - corrected spelling of "Ala" as Xaa
Explanation for location 3



IFW16

RAW SEQUENCE LISTING

DATE: 08/13/2004

PATENT APPLICATION: US/09/747,287A

TIME: 11:40:58

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08132004\I747287A.raw

3 <110> APPLICANT: KOMORIYA, AKIRA
 4 PACKARD, BEVERLY S.
 6 <120> TITLE OF INVENTION: HOMO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME
 7 ACTIVITY IN BIOLOGICAL SAMPLES
 9 <130> FILE REFERENCE: 300-948600US
 11 <140> CURRENT APPLICATION NUMBER: 09/747,287A
 12 <141> CURRENT FILING DATE: 2000-12-22
 14 <150> PRIOR APPLICATION NUMBER: US 09/349,019
 15 <151> PRIOR FILING DATE: 1999-09-10
 17 <150> PRIOR APPLICATION NUMBER: US08/802,981
 18 <151> PRIOR FILING DATE: 1997-02-20
 20 <150> PRIOR APPLICATION NUMBER: PCT/US00/24882
 21 <151> PRIOR FILING DATE: 2000-09-11
 23 <160> NUMBER OF SEQ ID NOS: 246
 25 <170> SOFTWARE: PatentIn version 3.3
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 9
 29 <212> TYPE: PRT
 30 <213> ORGANISM: Artificial
 32 <220> FEATURE:
 33 <223> OTHER INFORMATION: Synthetic peptide.
 36 <220> FEATURE:
 37 <221> NAME/KEY: misc_feature
 38 <222> LOCATION: (5)..(5)
 39 <223> OTHER INFORMATION: Xaa is norleucine
 41 <400> SEQUENCE: 1
 W--> 43 Asp Ala Ile Pro Xaa Ser Ile Pro Cys
 44 1 5
 47 <210> SEQ ID NO: 2
 48 <211> LENGTH: 5
 49 <212> TYPE: PRT
 50 <213> ORGANISM: Artificial
 52 <220> FEATURE:
 53 <223> OTHER INFORMATION: Synthetic peptide.
 55 <400> SEQUENCE: 2
 57 Ile Pro Met Ser Ile
 58 1 5
 61 <210> SEQ ID NO: 3
 62 <211> LENGTH: 4
 63 <212> TYPE: PRT
 64 <213> ORGANISM: Artificial
 66 <220> FEATURE:
 67 <223> OTHER INFORMATION: Synthetic peptide.

pp 6-7

RAW SEQUENCE LISTING

DATE: 08/13/2004

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TIME: 11:40:58

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08132004\I747287A.raw

69 <400> SEQUENCE: 3

71 Pro Met Ser Ile

72 1

75 <210> SEQ ID NO: 4

76 <211> LENGTH: 4

77 <212> TYPE: PRT

78 <213> ORGANISM: Artificial

80 <220> FEATURE:

81 <223> OTHER INFORMATION: Synthetic peptide.

84 <220> FEATURE:

85 <221> NAME/KEY: misc_feature

86 <222> LOCATION: (2)..(2)

87 <223> OTHER INFORMATION: Xaa is norleucine

89 <400> SEQUENCE: 4

W--> 91 Pro Xaa Ser Ile

92 1

95 <210> SEQ ID NO: 5

96 <211> LENGTH: 9

97 <212> TYPE: PRT

98 <213> ORGANISM: Artificial

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101 <223> OTHER INFORMATION: Synthetic peptide.

104 <220> FEATURE:

105 <221> NAME/KEY: misc_feature

106 <222> LOCATION: (5)..(5)

107 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

109 <220> FEATURE:

110 <221> NAME/KEY: misc_feature

111 <222> LOCATION: (8)..(8)

112 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid

114 <220> FEATURE:

115 <221> NAME/KEY: misc_feature

116 <222> LOCATION: (9)..(9)

117 <223> OTHER INFORMATION: Xaa is Cys or Lys

119 <400> SEQUENCE: 5

W--> 121 Asp Ala Ile Pro Xaa Ser Ile Xaa Xaa

122 1

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125 <210> SEQ ID NO: 6

126 <211> LENGTH: 9

127 <212> TYPE: PRT

128 <213> ORGANISM: Artificial

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131 <223> OTHER INFORMATION: Synthetic peptide.

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135 <221> NAME/KEY: misc_feature

136 <222> LOCATION: (2)..(2)

137 <223> OTHER INFORMATION: Xaa is Met, alpha-aminoisobutyric acid, or Pro

139 <220> FEATURE:

140 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING

DATE: 08/13/2004

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TIME: 11:40:58

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08132004\I747287A.raw

141 <222> LOCATION: (3)..(3)

142 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro

144 <220> FEATURE:

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147 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid

149 <220> FEATURE:

150 <221> NAME/KEY: misc_feature

151 <222> LOCATION: (9)..(9)

152 <223> OTHER INFORMATION: Xaa is Cys or Lys

154 <400> SEQUENCE: 6

W--> 156 Asp Xaa Xaa Gly Arg Thr Gly Xaa Xaa

157 1 5

160 <210> SEQ ID NO: 7

161 <211> LENGTH: 9

162 <212> TYPE: PRT

163 <213> ORGANISM: Artificial

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166 <223> OTHER INFORMATION: Synthetic peptide.

169 <220> FEATURE:

170 <221> NAME/KEY: misc_feature

171 <222> LOCATION: (2)..(2)

172 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid or Ala

174 <220> FEATURE:

175 <221> NAME/KEY: misc_feature

176 <222> LOCATION: (3)..(3)

177 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro

179 <220> FEATURE:

180 <221> NAME/KEY: misc_feature

181 <222> LOCATION: (6)..(6)

182 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

184 <220> FEATURE:

185 <221> NAME/KEY: misc_feature

186 <222> LOCATION: (8)..(8)

187 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid

189 <220> FEATURE:

190 <221> NAME/KEY: misc_feature

191 <222> LOCATION: (9)..(9)

192 <223> OTHER INFORMATION: Xaa is Cys or Lys

194 <400> SEQUENCE: 7

W--> 196 Asp Xaa Xaa Phe Cys Xaa Leu Xaa Xaa

197 1 5

200 <210> SEQ ID NO: 8

201 <211> LENGTH: 9

202 <212> TYPE: PRT

203 <213> ORGANISM: Artificial

205 <220> FEATURE:

206 <223> OTHER INFORMATION: Synthetic peptide.

209 <220> FEATURE:

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DATE: 08/13/2004

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TIME: 11:40:58

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08132004\I747287A.raw

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 211 <222> LOCATION: (2)..(2)
 212 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid
 214 <220> FEATURE:
 215 <221> NAME/KEY: misc_feature
 216 <222> LOCATION: (3)..(3)
 217 <223> OTHER INFORMATION: Xaa is Ser, alpha-aminoisobutyric acid, or Pro
 219 <220> FEATURE:
 220 <221> NAME/KEY: misc_feature
 221 <222> LOCATION: (5)..(5)
 222 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 224 <220> FEATURE:
 225 <221> NAME/KEY: misc_feature
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 227 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
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 232 <223> OTHER INFORMATION: Xaa is Cys or Lys
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 237 1 5
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 242 <212> TYPE: PRT
 243 <213> ORGANISM: Artificial
 245 <220> FEATURE:
 246 <223> OTHER INFORMATION: Synthetic peptide.
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 250 <221> NAME/KEY: misc_feature
 251 <222> LOCATION: (2)..(2)
 252 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Ile
 254 <220> FEATURE:
 255 <221> NAME/KEY: misc_feature
 256 <222> LOCATION: (3)..(3)
 257 <223> OTHER INFORMATION: Xaa is Ala, alpha-aminoisobutyric acid, or Pro
 259 <220> FEATURE:
 260 <221> NAME/KEY: misc_feature
 261 <222> LOCATION: (8)..(8)
 262 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
 264 <220> FEATURE:
 265 <221> NAME/KEY: misc_feature
 266 <222> LOCATION: (9)..(9)
 267 <223> OTHER INFORMATION: Xaa is Cys or Lys
 269 <400> SEQUENCE: 9
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 272 1 5
 275 <210> SEQ ID NO: 10
 276 <211> LENGTH: 9

RAW SEQUENCE LISTING

DATE: 08/13/2004

PATENT APPLICATION: US/09/747,287A

TIME: 11:40:58

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08132004\I747287A.raw

277 <212> TYPE: PRT
 278 <213> ORGANISM: Artificial
 280 <220> FEATURE:
 281 <223> OTHER INFORMATION: Synthetic peptide.
 284 <220> FEATURE:
 285 <221> NAME/KEY: misc_feature
 286 <222> LOCATION: (2)..(2)
 287 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid
 289 <220> FEATURE:
 290 <221> NAME/KEY: misc_feature
 291 <222> LOCATION: (3)..(3)
 292 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro
 294 <220> FEATURE:
 295 <221> NAME/KEY: misc_feature
 296 <222> LOCATION: (8)..(8)
 297 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
 299 <220> FEATURE:
 300 <221> NAME/KEY: misc_feature
 301 <222> LOCATION: (9)..(9)
 302 <223> OTHER INFORMATION: Xaa is Cys or Lys
 304 <400> SEQUENCE: 10

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307 1 5
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 313 <213> ORGANISM: Artificial
 315 <220> FEATURE:
 316 <223> OTHER INFORMATION: Synthetic peptide.
 319 <220> FEATURE:
 320 <221> NAME/KEY: misc_feature
 321 <222> LOCATION: (2)..(2)
 322 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Gly
 324 <220> FEATURE:
 325 <221> NAME/KEY: misc_feature
 326 <222> LOCATION: (3)..(3)
 327 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Pro
 329 <220> FEATURE:
 330 <221> NAME/KEY: misc_feature
 331 <222> LOCATION: (8)..(8)
 332 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
 334 <220> FEATURE:
 335 <221> NAME/KEY: misc_feature
 336 <222> LOCATION: (9)..(9)
 337 <223> OTHER INFORMATION: Xaa is Cys or Lys
 339 <400> SEQUENCE: 11

W--> 341 Asp Xaa Xaa Leu Gly Ile Ala Xaa Xaa

342 1 5
 345 <210> SEQ ID NO: 12

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/747,287A

DATE: 08/13/2004
TIME: 11:40:59

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\08132004\I747287A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 5
Seq#:4; Xaa Pos. 2
Seq#:5; Xaa Pos. 5,8,9
Seq#:6; Xaa Pos. 2,3,8,9
Seq#:7; Xaa Pos. 2,3,6,8,9
Seq#:8; Xaa Pos. 2,3,5,8,9
Seq#:9; Xaa Pos. 2,3,8,9
Seq#:10; Xaa Pos. 2,3,8,9
Seq#:11; Xaa Pos. 2,3,8,9
Seq#:12; Xaa Pos. 2,3,8,9
Seq#:13; Xaa Pos. 2,3,8,9
Seq#:14; Xaa Pos. 2,3,8,9
Seq#:15; Xaa Pos. 2,3,8,9
Seq#:16; Xaa Pos. 2,3,8,9
Seq#:17; Xaa Pos. 2,3,8,9
Seq#:18; Xaa Pos. 2,3,8,9
Seq#:19; Xaa Pos. 2,3,7,8,9
Seq#:20; Xaa Pos. 2,3,8,9
Seq#:21; Xaa Pos. 2,3,8,9
Seq#:22; Xaa Pos. 2,3,8,9
Seq#:23; Xaa Pos. 2,3,8,9
Seq#:24; Xaa Pos. 2,3,8,9
Seq#:25; Xaa Pos. 2,3,8,9
Seq#:26; Xaa Pos. 2,3,8,9
Seq#:27; Xaa Pos. 2,3,8,9
Seq#:28; Xaa Pos. 2,3,8,9
Seq#:29; Xaa Pos. 2,3,8,9
Seq#:30; Xaa Pos. 2,3,8,9
Seq#:31; Xaa Pos. 2,3,8,9
Seq#:32; Xaa Pos. 2,3,8,9
Seq#:33; Xaa Pos. 2,3,8,9
Seq#:34; Xaa Pos. 2,3,8,9
Seq#:46; Xaa Pos. 6
Seq#:48; Xaa Pos. 4
Seq#:49; Xaa Pos. 4
Seq#:51; Xaa Pos. 4,14
Seq#:52; Xaa Pos. 4,14,16
Seq#:53; Xaa Pos. 4,6,15
Seq#:54; Xaa Pos. 4
Seq#:55; Xaa Pos. 13
Seq#:56; Xaa Pos. 4,14,16
Seq#:57; Xaa Pos. 4,14
Seq#:58; Xaa Pos. 4,7,14
Seq#:59; Xaa Pos. 4,6,9,14

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/747,287A

DATE: 08/13/2004
TIME: 11:40:59

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08132004\I747287A.raw

Seq#:60; Xaa Pos. 4,14
Seq#:61; Xaa Pos. 4,14
Seq#:62; Xaa Pos. 4,14
Seq#:63; Xaa Pos. 4,14
Seq#:64; Xaa Pos. 4,14
Seq#:65; Xaa Pos. 4,5,14,15
Seq#:66; Xaa Pos. 4,14

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51
Seq#:52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75
Seq#:76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99
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Seq#:172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189
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Seq#:208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225
Seq#:226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243
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VERIFICATION SUMMARY

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TIME: 11:40:59

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08132004\I747287A.raw

L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:1011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:1046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:1081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:1151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
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L:1359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:1383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
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L:1490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0
L:1514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:1538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:1572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:1597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
L:1631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:1670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
L:1699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0
L:1728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:1757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:1786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0

VERIFICATION SUMMARY

DATE: 08/13/2004

PATENT APPLICATION: US/09/747,287A

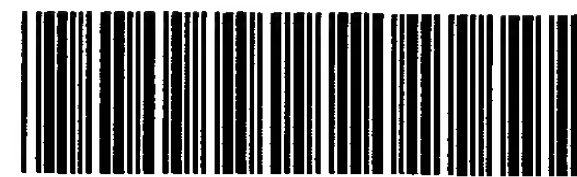
TIME: 11:40:59

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08132004\I747287A.raw

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IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/747,287A

DATE: 08/12/2004

TIME: 15:22:38

Input Set : A:\300-948600US.txt

Output Set: N:\CRF4\08122004\I747287A.raw

**Does Not Comply
Corrected Diskette Needed**

P.4

3 <110> APPLICANT: KOMORIYA, AKIRA
 4 PACKARD, BEVERLY S.
 6 <120> TITLE OF INVENTION: HOMO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME
 7 ACTIVITY IN BIOLOGICAL SAMPLES
 9 <130> FILE REFERENCE: 300-948600US
 11 <140> CURRENT APPLICATION NUMBER: 09/747,287A
 12 <141> CURRENT FILING DATE: 2000-12-22
 14 <150> PRIOR APPLICATION NUMBER: US 09/349,019
 15 <151> PRIOR FILING DATE: 1999-09-10
 17 <150> PRIOR APPLICATION NUMBER: US08/802,981
 18 <151> PRIOR FILING DATE: 1997-02-20
 20 <150> PRIOR APPLICATION NUMBER: PCT/US00/24882
 21 <151> PRIOR FILING DATE: 2000-09-11
 23 <160> NUMBER OF SEQ ID NOS: 246
 25 <170> SOFTWARE: PatentIn version 3.3
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 9
 29 <212> TYPE: PRT
 30 <213> ORGANISM: Artificial
 32 <220> FEATURE:
 33 <223> OTHER INFORMATION: Synthetic peptide.
 36 <220> FEATURE:
 37 <221> NAME/KEY: misc_feature
 38 <222> LOCATION: (5)..(5)
 39 <223> OTHER INFORMATION: Xaa is norleucine
 41 <400> SEQUENCE: 1
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 44 1 5
 47 <210> SEQ ID NO: 2
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 53 <223> OTHER INFORMATION: Synthetic peptide.
 55 <400> SEQUENCE: 2
 57 Ile Pro Met Ser Ile
 58 1 5
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 66 <220> FEATURE:
 67 <223> OTHER INFORMATION: Synthetic peptide.

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TIME: 15:22:38

Input Set : A:\300-948600US.txt

Output Set: N:\CRF4\08122004\I747287A.raw

69 <400> SEQUENCE: 3

71 Pro Met Ser Ile

72 1

75 <210> SEQ ID NO: 4

76 <211> LENGTH: 4

77 <212> TYPE: PRT

78 <213> ORGANISM: Artificial

80 <220> FEATURE:

81 <223> OTHER INFORMATION: Synthetic peptide.

84 <220> FEATURE:

85 <221> NAME/KEY: misc_feature

86 <222> LOCATION: (2)..(2)

87 <223> OTHER INFORMATION: Xaa is norleucine

89 <400> SEQUENCE: 4

W--> 91 Pro Xaa Ser Ile

92 1

95 <210> SEQ ID NO: 5

96 <211> LENGTH: 9

97 <212> TYPE: PRT

98 <213> ORGANISM: Artificial

100 <220> FEATURE:

101 <223> OTHER INFORMATION: Synthetic peptide.

104 <220> FEATURE:

105 <221> NAME/KEY: misc_feature

106 <222> LOCATION: (5)..(5)

107 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

109 <220> FEATURE:

110 <221> NAME/KEY: misc_feature

111 <222> LOCATION: (8)..(8)

112 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid

114 <220> FEATURE:

115 <221> NAME/KEY: misc_feature

116 <222> LOCATION: (9)..(9)

117 <223> OTHER INFORMATION: Xaa is Cys or Lys

119 <400> SEQUENCE: 5

W--> 121 Asp Ala Ile Pro Xaa Ser Ile Xaa Xaa

122 1

5

125 <210> SEQ ID NO: 6

126 <211> LENGTH: 9

127 <212> TYPE: PRT

128 <213> ORGANISM: Artificial

130 <220> FEATURE:

131 <223> OTHER INFORMATION: Synthetic peptide.

134 <220> FEATURE:

135 <221> NAME/KEY: misc_feature

136 <222> LOCATION: (2)..(2)

137 <223> OTHER INFORMATION: Xaa is Met, alpha-aminoisobutyric acid, or Pro

139 <220> FEATURE:

140 <221> NAME/KEY: misc_feature

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141 <222> LOCATION: (3)..(3)
 142 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro
 144 <220> FEATURE:
 145 <221> NAME/KEY: misc_feature
 146 <222> LOCATION: (8)..(8)
 147 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
 149 <220> FEATURE:
 150 <221> NAME/KEY: misc_feature
 151 <222> LOCATION: (9)..(9)
 152 <223> OTHER INFORMATION: Xaa is Cys or Lys
 154 <400> SEQUENCE: 6
 W--> 156 Asp Xaa Xaa Gly Arg Thr Gly Xaa Xaa
 157 1 5
 160 <210> SEQ ID NO: 7
 161 <211> LENGTH: 9
 162 <212> TYPE: PRT
 163 <213> ORGANISM: Artificial
 165 <220> FEATURE:
 166 <223> OTHER INFORMATION: Synthetic peptide.
 169 <220> FEATURE:
 170 <221> NAME/KEY: misc_feature
 171 <222> LOCATION: (2)..(2)
 172 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid or Ala
 174 <220> FEATURE:
 175 <221> NAME/KEY: misc_feature
 176 <222> LOCATION: (3)..(3)
 177 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro
 179 <220> FEATURE:
 180 <221> NAME/KEY: misc_feature
 181 <222> LOCATION: (6)..(6)
 182 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 184 <220> FEATURE:
 185 <221> NAME/KEY: misc_feature
 186 <222> LOCATION: (8)..(8)
 187 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
 189 <220> FEATURE:
 190 <221> NAME/KEY: misc_feature
 191 <222> LOCATION: (9)..(9)
 192 <223> OTHER INFORMATION: Xaa is Cys or Lys
 194 <400> SEQUENCE: 7
 W--> 196 Asp Xaa Xaa Phe Cys Xaa Leu Xaa Xaa
 197 1 5
 200 <210> SEQ ID NO: 8
 201 <211> LENGTH: 9
 202 <212> TYPE: PRT
 203 <213> ORGANISM: Artificial
 205 <220> FEATURE:
 206 <223> OTHER INFORMATION: Synthetic peptide.
 209 <220> FEATURE:

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210 <221> NAME/KEY: misc_feature
 211 <222> LOCATION: (2)..(2)
 212 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid
 214 <220> FEATURE:
 215 <221> NAME/KEY: misc_feature
 216 <222> LOCATION: (3)..(3)
 217 <223> OTHER INFORMATION: Xaa is Ser, alpha-aminoisobutyric acid, or Pro
 219 <220> FEATURE:
 220 <221> NAME/KEY: misc_feature
 221 <222> LOCATION: (5)..(5)
 222 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 224 <220> FEATURE:
 225 <221> NAME/KEY: misc_feature
 226 <222> LOCATION: (8)..(8)
 227 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
 229 <220> FEATURE:
 230 <221> NAME/KEY: misc_feature
 231 <222> LOCATION: (9)..(9)
 232 <223> OTHER INFORMATION: Xaa is Cys or Lys
 234 <400> SEQUENCE: 8
 W--> 236 Asp Xaa Xaa Arg Xaa Ser Leu Xaa Xaa
 237 1 5
 240 <210> SEQ ID NO: 9
 241 <211> LENGTH: 9
 242 <212> TYPE: PRT
 243 <213> ORGANISM: Artificial
 245 <220> FEATURE:
 246 <223> OTHER INFORMATION: Synthetic peptide.
 249 <220> FEATURE:
 250 <221> NAME/KEY: misc_feature
 251 <222> LOCATION: (2)..(2)
 252 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Ile
 254 <220> FEATURE:
 255 <221> NAME/KEY: misc_feature
 256 <222> LOCATION: (3)..(3)
 257 <223> OTHER INFORMATION: Xaa is ^{Ala}Ala, alpha-aminoisobutyric acid, or Pro
 259 <220> FEATURE:
 260 <221> NAME/KEY: misc_feature
 261 <222> LOCATION: (8)..(8)
 262 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
 264 <220> FEATURE:
 265 <221> NAME/KEY: misc_feature
 266 <222> LOCATION: (9)..(9)
 267 <223> OTHER INFORMATION: Xaa is Cys or Lys
 269 <400> SEQUENCE: 9
 W--> 271 Asp Xaa Xaa Gly Arg Ser Leu Xaa Xaa
 272 1 5
 275 <210> SEQ ID NO: 10
 276 <211> LENGTH: 9

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277 <212> TYPE: PRT
278 <213> ORGANISM: Artificial
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Synthetic peptide.
284 <220> FEATURE:
285 <221> NAME/KEY: misc_feature
286 <222> LOCATION: (2)..(2)
287 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid
289 <220> FEATURE:
290 <221> NAME/KEY: misc_feature
291 <222> LOCATION: (3)..(3)
292 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro
294 <220> FEATURE:
295 <221> NAME/KEY: misc_feature
296 <222> LOCATION: (8)..(8)
297 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
299 <220> FEATURE:
300 <221> NAME/KEY: misc_feature
301 <222> LOCATION: (9)..(9)
302 <223> OTHER INFORMATION: Xaa is Cys or Lys
304 <400> SEQUENCE: 10
W--> 306 Asp Xaa Xaa Leu Leu Ser Leu Xaa Xaa
307 1 5
310 <210> SEQ ID NO: 11
311 <211> LENGTH: 9
312 <212> TYPE: PRT
313 <213> ORGANISM: Artificial
315 <220> FEATURE:
316 <223> OTHER INFORMATION: Synthetic peptide.
319 <220> FEATURE:
320 <221> NAME/KEY: misc_feature
321 <222> LOCATION: (2)..(2)
322 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Gly
324 <220> FEATURE:
325 <221> NAME/KEY: misc_feature
326 <222> LOCATION: (3)..(3)
327 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Pro
329 <220> FEATURE:
330 <221> NAME/KEY: misc_feature
331 <222> LOCATION: (8)..(8)
332 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid
334 <220> FEATURE:
335 <221> NAME/KEY: misc_feature
336 <222> LOCATION: (9)..(9)
337 <223> OTHER INFORMATION: Xaa is Cys or Lys
339 <400> SEQUENCE: 11
W--> 341 Asp Xaa Xaa Leu Gly Ile Ala Xaa Xaa
342 1 5
345 <210> SEQ ID NO: 12

```

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 5
Seq#:4; Xaa Pos. 2
Seq#:5; Xaa Pos. 5, 8, 9
Seq#:6; Xaa Pos. 2, 3, 8, 9
Seq#:7; Xaa Pos. 2, 3, 6, 8, 9
Seq#:8; Xaa Pos. 2, 3, 5, 8, 9
Seq#:9; Xaa Pos. 2, 3, 8, 9
Seq#:10; Xaa Pos. 2, 3, 8, 9
Seq#:11; Xaa Pos. 2, 3, 8, 9
Seq#:12; Xaa Pos. 2, 3, 8, 9
Seq#:13; Xaa Pos. 2, 3, 8, 9
Seq#:14; Xaa Pos. 2, 3, 8, 9
Seq#:15; Xaa Pos. 2, 3, 8, 9
Seq#:16; Xaa Pos. 2, 3, 8, 9
Seq#:17; Xaa Pos. 2, 3, 8, 9
Seq#:18; Xaa Pos. 2, 3, 8, 9
Seq#:19; Xaa Pos. 2, 3, 7, 8, 9
Seq#:20; Xaa Pos. 2, 3, 8, 9
Seq#:21; Xaa Pos. 2, 3, 8, 9
Seq#:22; Xaa Pos. 2, 3, 8, 9
Seq#:23; Xaa Pos. 2, 3, 8, 9
Seq#:24; Xaa Pos. 2, 3, 8, 9
Seq#:25; Xaa Pos. 2, 3, 8, 9
Seq#:26; Xaa Pos. 2, 3, 8, 9
Seq#:27; Xaa Pos. 2, 3, 8, 9
Seq#:28; Xaa Pos. 2, 3, 8, 9
Seq#:29; Xaa Pos. 2, 3, 8, 9
Seq#:30; Xaa Pos. 2, 3, 8, 9
Seq#:31; Xaa Pos. 2, 3, 8, 9
Seq#:32; Xaa Pos. 2, 3, 8, 9
Seq#:33; Xaa Pos. 2, 3, 8, 9
Seq#:34; Xaa Pos. 2, 3, 8, 9
Seq#:46; Xaa Pos. 6
Seq#:48; Xaa Pos. 4
Seq#:49; Xaa Pos. 4
Seq#:51; Xaa Pos. 4, 14
Seq#:52; Xaa Pos. 4, 14, 16
Seq#:53; Xaa Pos. 4, 6, 15
Seq#:54; Xaa Pos. 4
Seq#:55; Xaa Pos. 13
Seq#:56; Xaa Pos. 4, 14, 16
Seq#:57; Xaa Pos. 4, 14
Seq#:58; Xaa Pos. 4, 7, 14
Seq#:59; Xaa Pos. 4, 6, 9, 14

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Seq#:60; Xaa Pos. 4,14
Seq#:61; Xaa Pos. 4,14
Seq#:62; Xaa Pos. 4,14
Seq#:63; Xaa Pos. 4,14
Seq#:64; Xaa Pos. 4,14
Seq#:65; Xaa Pos. 4,5,14,15
Seq#:66; Xaa Pos. 4,14

Invalid <213> Response:

**Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.**

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51
Seq#:52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75
Seq#:76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99
Seq#:100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117
Seq#:118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135
Seq#:136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153
Seq#:154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171
Seq#:172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189
Seq#:190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207
Seq#:208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225
Seq#:226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243
Seq#:244,245,246

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L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:1011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:1046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:1081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:1151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:1325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:1359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:1383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:1426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:1460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
L:1490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0
L:1514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:1538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:1572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:1597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
L:1631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:1670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
L:1699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0
L:1728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:1757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:1786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0

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L:1815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0

L:1844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0